



6980 Sierra Center Parkway, Suite 90
 Reno, NV 89511

January 12, 2016
 File: 1009

Mr. Chris Benna
RILITE AGGREGATES
 3025 Mill Street
 Reno, NV 89502

RE: Rilite Pit – 1½ Inch Structural Fill

Dear Mr. Benna:

Per your request, we have performed testing on the structural fill received by our laboratory on January 5th. Test results are as follows in comparison with the 2012 Standard Specifications for Public Works Construction (SSPWC), "Orange Book".

Sieve Size Analysis (ASTM C136/C117)		
U.S. Standard Sieve Size	Percent By Weight Passing	
	Structural Fill	Structural Fill
4 Inch	100	100
2 Inch	100	-
1½ Inch	97	-
1 Inch	86	-
¾ Inch	77	70 - 100
¾ Inch	59	-
No. 4	47	-
No. 8	39	-
No. 10	37	-
No. 16	31	-
No. 30	25	15 - 65
No. 40	23	-
No. 50	21	-
No. 100	16	-
No. 200	12.0	5 - 20
Atterberg Limits (ASTM D4318)		
		Specification
Liquid Limit	29	35 Maximum
Plasticity Index	5	12 Maximum
Moisture Density (ASTM D1557C)		
Maximum Dry Density		123.0 PCF
Optimum Moisture		11.5%

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We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.



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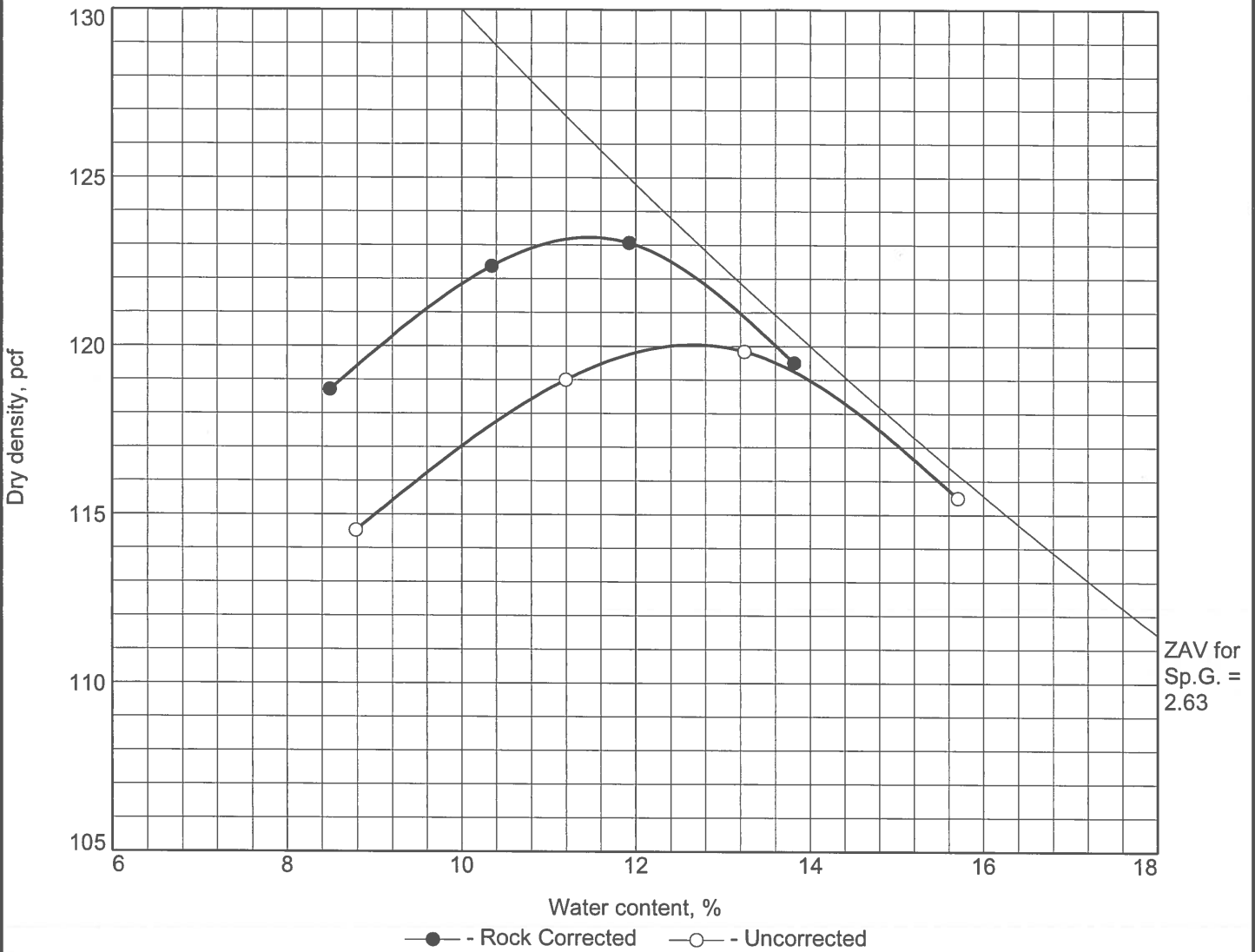


1-12-16

SLV:ROC:jy
Enclosure

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MOISTURE DENSITY CURVE



Test specification: ASTM D 1557-07 Method C Modified
 ASTM D 4718-87 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
							23.0	12.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 123.0 pcf	120.0 pcf	1 1/2" STRUCTURAL FILL RILITE PIT
Optimum moisture = 11.5 %	12.5 %	

Project No. 1009 Client: RILITE AGGREGATES Project: RILITE AGGREGATES-QUALITY TESTING Location: PLANT STOCKPILE Sample Number: 30068	Remarks: RECEIVED 1/5/2016
	Plate:

Tested By: S. HEIN

Checked By: S. VINEIS